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		Application Number	10/071490
		Filing Date	February 7 2002
		First Named Inventor	J Alexander Marchoskyl
		Group Art Unit	
		Examiner Name	
Total Number of Pages in This Submission		Attorney Docket Number	60019660-0021

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Firm or Individual Name	David E. Crawford, Jr.
Signature	
Date	July 8, 2002

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Attorney Docket No. 60019660-0021

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of J.A. Marchosky) Group Art Unit
Application No. 10 071490)
Filed: February 7, 2002)
For: COMPOSITIONS AND METHODS)
FOR FORMING AND)
STRENGTHENING BONE)

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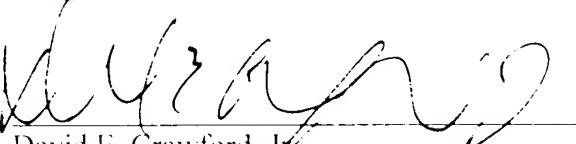
In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicant submits the attached 1449B/PTO for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application 09/606,768, filed on June 29, 2000. The references were submitted to, and/or cited by, the Office in the prior application and, therefore, are not required to be provided in this application.

Respectfully submitted,

Dated: 08 Jul 02

By:


David E. Crawford, Jr.
Registration No. 38,118
SONNENSCHEIN NATH & ROSENTHAL
One Metropolitan Square, Suite 3000
St. Louis, Missouri 63102
(314) 259-5810

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Application Number	10 071490
Filing Date	February 7, 2002
First Named Inventor	J. Alexander Marchosky
Group Art Unit	
Examiner Name	
Attorney Docket Number	60019660-0021

Examiner Initials*	CiteNo ¹	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
1	4141973	B1		Balazs	02/27/1979
2	4440750			Glowacki et al.	04/3/1984
3	4642120			Nevo et al.	02/10/1987
4	4837379			Weinberg	06/06/1989
5	5073373	B1		O'Leary et al.	12/17/1997
6	5166331	B1		della Vallet et al.	11/24/1992
7	5314476	B1		Prewett et al.	05/24/1994
8	5356629	B1		Sander et al.	10/18/1994
9	5563124			Damien et al.	10/08/1996
10	5629287	A		Brown et al.	05/1997
11	5645591	B1		Kubera Sampath et al.	07/8/1997
12	5685716	B1		Linkow	11/11/1997
13	5711957			Patat et al.	01/27/1998
14	5755792			Brekke	05/26/1998
15	5776193	B1		Kwan et al.	07/07/1998
16	5786327	B1		Tam	07/28/1998
17	5830493			Yokota et al.	11/03/1998
18	5837258			Grotendorst	11/17/1998
19	5894070			Hansson et al.	04/13/1999
20	5916870	B1		Lee et al.	06/29/1999
21	5942499	B1		Radomsky	08/24/1999
22	5948428	B1		Lee et al.	09/07/1999
23	5958441	B1		Oppermann et al.	09/28/1999
24	6017940	A		Petrie et al.	1/2000
25	6030635	B1		Gertzman et al.	02/29/2000
26	6049026	A		Muschler	4/2000
27	6165487	B1		Ashkar et al.	12/26/2000

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28	6171610	B1	Vacanti et al.	12001
29	6214048	B1	Ito et al.	04 10 2001

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		Office	Number ⁴	Kind Code (if known)	
30	WO	91/18558	A1	Creative Biomolecules, Inc.	12/12/1991
31	WO	93/00050	A1	Genetics Institute, Inc.	01/07/1993
32	WO	93/20858	A1	Fidia S.P.A.	10/29/1993
33	WO	94/15653			07/21/1994
34	WO	95/13767			05/26/1995
35	WO	97/14376	A1	Orquest, Inc.	04/24/1997
36	WO	97/18842	A1	Fidia Advanced Biopolymers S.R.L.	05/29/1997
37	WO	97/32591			09/12/1997
38	WO	98/22114			05/28/1998
39	WO	98/56433			12/17/1998
40	WO	00/45870	A1	SDGI Holdings, Inc.	08/10/2000
41	EPO	754466			1/22/1997

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Group Art Unit	Not assigned yet
Examiner Name	Not assigned yet
Attorney Docket Number	60019660-0021

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. [†]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published	T ²
	42	Abe et al., "Model-Based Surgical Planning and Simulation of Cranial Base Surgery" (1998) Neurologia Medico-Chirurgica, Vol. 38, pp. 746-751.	
	43	Bodmeier et al., "Preparation and Evaluation of Drug-Containing Chitosan Beads" (1989) Drug Development Industrial Pharmacy, Vol. 15 pp. 1475-1494.	
	44	Bruder et al., "Bone Regeneration by Implantation of Purified, Culture-Expanded Human Mesenchymal Stem Cells" (1998) Journal of Orthopaedic Research, Vol. 16, pp. 166-162.	
	45	Chandy et al., "Chitosan - As a Biomaterial" (1990) Biomat., Art. Cells, Art. Org., Vol. 18, pp. 1-24.	
	46	Ellein et al., "Neural tissue engineering: Adrenal chromaffin cell attachment and viability on chitosan scaffolds" (1998) Neurological Research, Vol. 20, pp. 648-654.	
	47	Epply et al., "Free Bone Graft Reconstruction of Irradiated Facial Tissue: Experimental Effects of Basic Fibroblast Growth Factor Stimulation" (1991) Plastic and Reconstruction Surgery, Vol. 88, pp. 1-11.	
	48	Gaserød et al., "Microcapsules of alginate-chitosan - I quantitative study of the interaction between alginate and chitosan" (1998) Biomaterials, Vol. 19, pp. 1815-1825.	
	49	Jameela et al., "Glutaraldehyde cross-linked chitosan microspheres as a long acting biodegradable drug delivery vehicle: studies on the <i>in vitro</i> release of mitoxantrone and <i>in vivo</i> degradation of microspheres in rat muscle" (1995) Biomaterials, Vol. 16, pp. 769-775.	
	50	Katz et al., "Quantification of holographic fringe data: comparison of intact and implanted femurs" (1998) Medical Engineering & Physics, Vol. 20, pp. 114-123.	
	51	Kibbwhite et al., "Transforming Growth Factor- β Accelerates Osteoinduction in a Craniofacial Only Model" (1993) Growth Factors, Vol.	

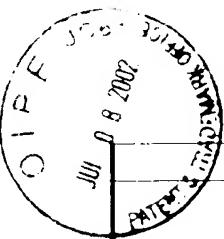
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	9, pp. 185-193.
52	Klokkevold et al., "Osteogenesis Enhanced by Chitosan (Poly-N-Acetyl Glucosaminoglycan) In Vitro" (1996) J. Periodontol, Vol. 67, pp. 1170-1175.
53	Ko, K., "Superimposed holographic image-guided neurosurgery" (1998) J. Neurosurg., Vol. 88, pp. 777-781.
54	Miyazaki et al., "Thermally reversible xyloglucan gels as vehicles for rectal drug delivery" (1998) Journal of Controlled Release, Vol. 56, pp. 75-83.
55	Mori et al., "Effects of chitin and its derivatives on the proliferation and cytokine production of fibroblasts <i>in vitro</i> " (1997) Biomaterials, Vol. 8, pp. 947-951.
56	Mundy et al., "Stimulation of Bone Formation in Vitro and in Rodents by Statins" (1999) Science, Vol. 286, No. 5446, pp. 1946-1949.
57	Phillips et al., "Do Growth Factors Stimulate Angiogenesis? A Comparison of Putative Angiogenesis Factors" (1997) Wounds, Vol. 9, pp. 1-14.
58	Pilloni, "The Effect of Hyaluronan on Mouse Intramembranous Osteogenesis in Vitro" (1997).
59	Radomsky et al., "Potential Role of Fibroblast Growth Factor in Enhancement of Fracture Healing" (1998) Clinical Orthopaedics and Related Research, Number 355S, pp. S283-S293.
60	Rao et al., "Use of chitosan as a biomaterial: Studies on its safety and hemostatic potential" (1997) Journal of Biomedical Materials Research, Vol. 34, pp. 21-28.
61	Sasaki et al., "Stimulation of Osteoinduction in Bone Wound Healing by High-Molecular Hyaluronic Acid" (1995) Bone, Vol. 16, Number 1, pp. 9-15.
62	Solheim, E., "Osteoinduction by demineralised bone" (1998) International Orthopaedics, Vol. 22, pp. 335-342.
63	Tabata et al., "Bone regeneration of basic fibroblast growth factor complexed with biodegradable hydrogels" (1998), Biomaterials, Vol. 19, pp. 807-815.
64	Thomson et al., "Fabrication of biodegradable polymer seafolds to engineer trabecula bond" (1995) J. Biomater. Sci. Polymer Edn, Vol. 7, pp. 23-38.
65	Zentner et al., "A holographic study of variations in bone deformations resulting from different headgear forces in a macerated human skull" (1996) The Angle Orthodontist, Vol. 66, pp. 463-472.

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